Students Publications List **2008/10/24**

Status	Program	Student Name	Publications
2006 Graduated	CBMB	郭瑞廷 Rey-Ting Guo	1. **Guo, R. T.,** Cao, R., Ko, T. P., Chang, T.H.,Jeng, W.Y.,Kuo, C.J., Chen, C. K.-M., Hudock, M. P., Zhang, Y., Song, Y., Liang, P.H.,Oldfield, E., and Wang, A.H.-J.(2007) Bisphosphonates target mulitiple sites in both cis- and trans-prenyltransferases. *Proc. Natl. Acad. Sci. USA*104, 10022-10027. 2. Chang, T. H., **Guo, R. T.,** Ko, T. P., Wang, A. H.-J., and Liang, P. H. (2006) Crystal structure of type-Ⅲ geranylgeranyl pyrophosphate synthase from Saccharomyces cerevisiae and the mechanism of product chain length determination. *J. Biol. Chem.* 281,14991-15000. 3. Sun, H. Y., Ko, T.P., Kuo, C.J., **Guo, R. T.,** Chou, C. C., Liang, P.H., and Wang, A.H.-J. (2005)Homodimeric hexaprenyl pyrophosphate synthase from the thermoacidophilic crenarchaeon Sulfolobus solfataricus displays asymmetric subunit structures. *J Bacteriol.* 187, 8137-8148. 4. **Guo, R. T.,** Ko, T. P., Chen, A.P.-C. Kuo, C. J., Wang, A. H. –J., and Liang, P.H. (2005) Crystal structures of undecaprenyl pyrophosphate synthase in complex with magnesium, isopentenyl pyrophosphate and farnesyl thiopyrophosphate:Roles of the metal ion and conserved residues in catalysis. *J.Biol. Chem.* 280, 20762-20774. 5. Chu, H. M*., **Guo, R. T.,** Lin T. W., Chou, C. C., Shr, H. L., Lai, H.L., Tang, T. Y., Cheng, K. J. Selinger, B. L., and Wang, A. H.-j. (2004) Structures of *Selenomonas ruminantium* Phytase in complex with persulfated phytate: DSP phytase fold and mechanism for sequential substrate hydrolysis. *Structure.* **12**,2015-2024. 6. **Guo, R. T.,** Kuo, C. J., Ko, T. P., Chou, C. C., Liang, P. H., and Wang, A. H.-J. (2004) A molecular ruler for chain elongation catalyzed by octaprenyl pyrophosphate synthase and its structure-based engineering to produce

			unprecedented long-chain trans-prenyl products. *Biochemistry.* 43, 7678-7876. 7. **Guo, R. T.,** Kuo, C. J., Ko, T. P., Chou, C. C., Ko, T. P., Shr, H. L., Liang, P. H., and Wang, A. H.-J. (2004) Crystal structure of octaprenyl pyrophosphate synthase from hyperthermophilic *Thermotoga maritime* and mechanism of product chain length determination. *J. Biol. Chem.* **279,** 4903-4912. 8. **Guo, R. T.,** Ko, T. P., Chou, C. C., Shr, H.L., Chu, H. M., Tsai, Y.H., Liang, P.H., and Wang, A. H.-J. (2003) Preliminary X-ray diffraction analysis of octaprenyl pyrophosphate synthase crystals from Thermotoga maritime and Escherichia Coli. *Acta Crystallogr. Sect. D Biol. Crystallogr.* 59,2265-2268.
2007 Graduated	CBMB	王正中 Cheng-Chung Wang	1. **Wang CC**, Kulkarni SS, Lee JC, Luo SY, Hung SC. (2008) Regioselective one-pot protection of glucose. *Nat Protoc.*, 3(1):97-113. 2. **Wang CC**, Lee JC, Luo SY, Kulkarni SS, Huang YW, Lee CC, Chang KL, Hung SC. (2007) Regioselective one-pot protection of carbohydrates. *Nature*, 446(7138):896-9. 3. Lee JC, Chang SW, Liao CC, Chi FC, Chen CS, Wen YS, **Wang CC**, Kulkarni SS, Puranik R, Liu YH, Hung SC. (2004) From D-glucose to biologically potent L-hexose derivatives: synthesis of alpha-L-iduronidase fluorogenic detector and the disaccharide moieties of bleomycin A2 and heparan sulfate. *Chemistry,* 10(2):399-415.
2008 Graduated	CBMB	林祈宏 Chi-Hung Lin	1. **Lin CH**, Lin CW, Khoo KH. (2008) Proteomic identification of specific glycosyltransferases functionally implicated for the biosynthesis of a targeted glyco-epitope. *Proteomics*, 8(3):475-83. 2. Fan YY, Yu SY, Ito H, Kameyama A, Sato T, **Lin CH**, Yu LC, Narimatsu H, Khoo KH. (2008) Identification of further elongation and branching of dimeric type 1 chain on lactosylceramides from colonic adenocarcinoma by tandem

			mass spectrometry sequencing analyses. *J Biol Chem.* 283(24):16455-68.
2008 Graduated	CBMB	林柏樵 Po-Chiao Lin	1.P.-H. Chou, S.-H. Chen, H.-K. Liao, **P.-C. Lin,** G.-R. Her, Alan C.-Y. Lai, J.-H. Chen, C. –C. Lin,*, Y. -J. Chen, (2005) "Nanoprobe-Based Affinity Mass Spectrometry for Selected Protein Profiling in Human Plasma" *Anal. Chem.* 77, 5990-5997. (IF:5.287) 2**. P.-C. Lin,** P.-H. Chou, S. –H. Chen, H.-K. Liao, K. –Y. Wang, Y.-J. Chen, C.-C. Lin, (2006) Ethylene Glycol-Protected Magnetic Nanoparticles for a Multiplexed Immunoassay in Human Plasma" *Small,* , 2, 485-489. (IF:6.408) 3. **P.-C. Lin,** S. –H. Ueng, M. –C. Tseng, J.-L. Ko, K.-T. Huang, S.-C. Yu, A. K. Adak, Y.-J. Chen , C.-C. Lin (2006) *S*ite –Specific Protein Modification Through Cui-Catalyzed 1,2,3- Triazole Formation and Its Implementation in protein Microarray Fabrication. *Angew. Chem. Int. Ed.*,45,4286-4290. (IF:10.031) 4. **P.-C. Lin,** M.-C.Tseng, A.-K. Su, Y.-J. Chen, C.-C.Lin (2007) "*Functionalized Magnetic Nanoparticles for Small-Molecule Isololation, Identification, and Quantitication" Anal. Chem.* 79, 3401-3408.(IF:5.287) 5. **P.-C. Lin,** S.-H. Ueng, S.-C. Yu, M.-D. Jan, A. K. Adak, C.-C. Yu, C.C.Lin,* "*Surface Modification of Magnetic Nanoparticle Via Cu(Ⅰ)-Catalyzed Alkyne-azide [2+3] Cycloaddition " Org. Lett*. **2007,** 9,2131-2134. (IF:4.802) 6. Y.-J. Chen, **P.-C.Lin,** C.-C. Lin, S.-H. Chen, P.-H. Chou, H.K. Liao (2007), *Mass spectrometric analysis of ligand conjugated magnetic nanoparticles, U.S. Appl. Publ.* US20 070054407 7. T.-C. Chiu, L.-S. Huang, **P.-C.Lin,** Y.-C. Chen, Y.-J. Chen, C. –C. Lin, H.-T. Chang (2007**)**, „Nanomaterial Based Affinity Matrix-assisted Laser Desorption/ Ionization Mass Spectrometry for Biomolecules and Pathogenic Bacteria." *Recent patents on Nanotechnology***,** 1, 99-111. 8. L.-S. Huang, Y.-Y. Chien, S.-H. Chen, **P.-C.Lin**, K.-Y. Wang, P.-H. Chou, C.-C. Lin, and Y.-J. Chen (2007) "*Nanoprobe-based Affinity Mass Spectrometry for Cancer Marker Protein Profiling" in Nanomaterials for Cancer Diagnosis; Eds:Challa S. S. R. wiley-VCH,* 9. **P.-C.Lin,** A. Kumar Adak, and C.-C.Lin* (2008) "A*pplication of glycol-nanomaterial in the biological system"in The Molecular Immunology of Complex Carbohydrates-3; Eds: Albert M. Wu, Kluwer Academia/ Plenum Publishers,* 10. **P.-C.Lin,** C.-C. Yu, C.-C. Lin (2008) "Site-specific immobilization of CMP-sialic acid synthetase on magnetic nanoparticles and its use in the synthesis of CMP-sialic

			acid.*"Chem. Commun. (Camb)*, (11):1308-10. (authors equal contribution) 11. P.-H. Shih, J.-Y. Shiu, **P.-C.Lin,** C.-C.Lin, T. Veres, P. Chen (2008) "On chip sorting of bacterial cells using sugar-encapsulated magnetic nanoparticles*" J.Appl. Phys.* 103.07A316. 12. **P.-C.Lin,** S.-H. Chen, M.-L. Chen, A. Kumar Adak, Y.J. Chen* and C.-C. Lin*(2008) *"site-specific Immobilization of Antibody on the Magnetic Nanoparticle via Boronate Formation*" ACS Nano (submitted). 13. K.-Y. Wang, S.-A. Chuang, **P.-C.Lin,** S.-H. Chen, L.-S. Huang, C.-C. Lin, and Y.-J. Chen*(2008) Multiplexed immunoassay: quantitation and profiling of serum biomarkers using magnetic nanoprobes and MALDI-TOF MS. *Anal. Chem*. in press.
2007 Graduated	MCB	歐展言 Chan-Yen Ou	1. **Ou CY**, Wang CH, Jiang J, Chien CT. (2007) Suppression of Hedgehog signaling by Cul3 ligases in proliferation control of retinal precursors. *Dev Biol.* 1;308(1):106-19. 2. Zhang Q, Zhang L, Wang B, **Ou CY**, Chien CT, Jiang J. (2006) A hedgehog-induced BTB protein modulates hedgehog signaling by degrading ci/Gli transcription factor. *Dev Cell*. 10(6):719-29. 3. **Ou CY**, Pi H, Chien CT. (2003) Control of protein degradation by E3 ubiquitin ligases in Drosophila eye development. *Trends Genet.* jul;19(7):382-9.
2007 Graduated	MST	Sahadevan Sabu	1. Y.Cai, W.-P.Peng, S.-J.Kuo, **S.Sabu**, C.-C.Han and H.-C.Chang (2002) Optical detection and charge state analysis of MALDI-generated particles with molecular weights larger than 5MDa. *Analytical Chemistry*, 74(17):4434-4440. 2. Xianglei Kong, I.-A. Ann Tsai, **Sahadevan Sabu**, Chau-Chung Han, Yuan T. Lee, Huan-Cheng Chang, Shih –Yu Tu, Andy H. Kung , Chih-Che Wu (2004) Progressive Stabilization of Zwitterionic Structures in H+(Ser)2-8 Studied by Infrared Multiphoton Dissociation Spectroscopy. *Angew. Chem. Int. Ed*. 45,1 – 6 3. Wei-Hao Chen, Sheng-Chung Lee, **Sahadevan Sabu**, Huei-Chun Fang, Shu-Chien Chung, Chau-Chung Han, and Huan-Cheng Chang (2006) Solid-Phase Extraction and Elution on Diamond (SPEED):A Fast and General Platform for proteome analysis with Mass Spectrometry. *Anal. Chem.*,78, 4228-4234. 4. Wang YS, **Sabu S**, Wei SC, Josh Kao CM, Kong X, Liau SC, Han CC, Chang HC, Tu SY, Kung AH, Zhang JZ. (2006) Dissociation of heme from gaseous myoglobin ions studied by infrared multiphoton dissociation spectroscopy

			and Fourier-transform ion cyclotron resonance mass spectrometry. *J. Chem. Phys.* 125 (13)133310. 5. **Sabu S**, Yang FC, Wang YS, Chen WH, Chou MI, Chang HC, Han CC. (2007) Peptide analysis: Solid phase extraction-elution on diamond combined with atmospheric pressure matrix-assisted laser desorption/ionization-Fourier transform ion cyclotron resonance mass spectrometry. *Anal. Biochem.* 367, 190-200. 6. Sahadevan Sabu, Wei-Hao Chen, Fu-Chia Yang, Hua-Wen Lin, Huan-Cheng Chang and Chau-Chung Han Fragmentation of Protonated Pseudomolecular Ions of Metyhlated L-arginines in the Gas Phase. (to be submitted to JACS) 7. **Sahadevan Sabu,** Wei-Hao Chen, Chau-Chung Han, Huan-Cheng Chang.A Fast and robust mass spectrometry method of finding the relative abundance of N^G, N^G asymmetric dimethylarginine and N^G, N^G symmetric dimethylarginine from human urine without chromatography. (Manuscript in preparation) 8. Xianglei Kong, L. C. Lora Huang, **Sabu Sahadevan**, Chau-Chung Han, and Huan-Cheng Chang (Accelerated MALDI mass analysis with functionalized diamond nanocrystals and prestructured membrane filters. (Manuscript in preparation)
2007 Graduated	MST	Sajal Biring	1. **Sajal Biring**, Kun-Tong Tsai, Ujjal Kumar Sur, and Yuh-Lin Wang, "Electrochemically replicated smooth aluminum foils for anodic alumina nanochannel arrays", *Nanotecnology* **19**, 015304 (2008). 2. Shi-Wei Chu, Szu-Wu Chen, Tsung-Han Tsai, Tzu-Ming Liu, Shr-Bin Wu, **Sajal Biring**, Juen-Kai Wang, Yuh-Lin Wang, Kevin Chen, Bai-Lin Lin, Chi-Kuang Sun, "Resonance-enhanced functional third harmonic optical microscopy", Proceedings of SPIE **5323**, 306-313 (2004)
2008 Graduated	MST	劉振霖 Chen-Lin Liu	1. **Chen-Lin Liu**, H.C. Hsu, Y.C. Hsu, and C.K. Ni, Energy transfer of highly vibrationally excited naphthalene III: Rotation effects, *J. Chem. Phys*. (submitted) 2. **Chen-Lin Liu**, H.C. Hsu, Y.C. Hsu, and C.K. Ni (2008), Energy transfer of highly vibrationally excited naphthalene II: Vibrational energy dependence, isotope and mass effects, *J. Chem. Phys*. 128(16):164316. 3. **Chen-Lin Liu**, H.C. Hsu, Y.C. Hsu, and C.K. Ni, (2007) Energy transfer of highly vibrationally excited naphthalene I: Translational collision energy dependence, *J. Chem Phys*. 127, 104311

			4. **Chen-Lin Liu**, H.C. J.J. Lyu, and C.K. Ni, (2006) Energy transfer of highly vibrationally excited azulene. III. Collisions between azilene and argon, *J. Chem. Phys*. 125, 204309 5. V. Bernshtein, I. Oref, **Chen-Lin Liu**, H.C. Hsu, C.K. Ni, (2006) Experimental and computational investigation of energy transfer between azulence and krypton, *Chem. Phy. Letters*, 429,317 6. H.C. Hsu, **Chen-Lin Liu**, J.J. Lyu, and C.K. Ni, (2006) Energy transfer of highly vibrationally excited azulence. II. Photodissociation of azuler-Kr van der Waals clusters at 248 and 266nm, *J. Chem. Phys*. 124, 134303 7. **Chen-Lin Liu**, H.C. Hsu, J.J. Lyu, and C.K. Ni, (2006) Energy transfer of highly vibrationally excited azulence: Collisions between azulene and Krypton, *J. Chem. Phys*. 124, 54302 8. H.C. Hsu, J.J. Lyu, **Chen-Lin Liu**, C.L. Huang, and C.K. Ni, (2006) Generation and characterization of highly vibrationally excited molecular beam, *J. Chem. Phys*., 124, 54301 9. C.L. Huang, **Chen-Lin Liu,** C.K. Ni, and Jon T. Hougen, (2005) Electronic spectra of molecules with two C_{3v} internal roots: Torsional analysis of the $\tilde{A}^1A_U$-x^1A_gLIF spectrum of biacetyl, Journal of Molecular Spectroscopy 233, 122. 10. **Chen-Lin Liu,** H.C. Hsu, J. J. Lyu, and C.K. Ni, (2005) Supercollisions and energy transfer of highly vibrationally excited molecules, *J. Chem. Phys.* 123, 131102 (Communication) 11. **Chen-Lin Liu**, H.C. Hsu, and C.K. Ni, (2005) Time-sliced ion imaging study of I_2 and I_2^+ photolysis at 532 nm, *Phys. Chem. Chem. Phys*., **7**, 2151-55. (Cover Article) 12. **Liu CL,** Hsu HC, Ni CK (2005) Supercollisions and energy transfer of highly vibrationally excited molecules. *J Chem Phys.*, 123(13):131102. (Inside front cover) 13. C.L. Huang, H.H. Liu, **Chen-Lin Liu,** A.H. Kung, and C.K. Ni, (2002) Rationally resolved laser-induced fluorescence of biacetyl in $\tilde{A}^1A_U$-x^1A_g , *J. Chem. Phys*. 117, 5/65.

2008 Graduated	MST	林至閩 Chih-Kai Lin	1. Chih-Che Wu, **Chih-Kai Lin**, Huan-Cheng Chang, Jyh-Chiang Jiang, Jer-Lai Kuo, and Michael L. Klein (2005) "Protonated clathrate cages enclosing neutral water molecules: $H^+(H_2O)_{21}$ and $H^+(H_2O)_{28}$, "*J. Chem. Phys*. 122, 074315 2. **Chih-Kai Lin**, Chih-Che Wu, Yi-Sheng Wang, Yuan T. Lee, Huan-Cheng Chang, Jer-Lai Kuo, and Michael L. Llein (2005) "Vibrational lpredissociation spectra and hydrogen-bond topologies of $H^+(H_2))_{9-11}$, "*Phys. Chem. Chem. Phys*. 7, 938. 3. Kuo Kan Liang, **Chih-Kai Lin**, Huan-Cheng Chang, Michitoshi Hayashi, and Sheng Hsien Lin (2006) "Theoretical treatments of ultrafast electron transfer from adsorbed dye molecule to semiconductor nanocrystalline surface, "*J. Chem. Phys.* 125, 154706. 4. Kuo Kan Liang, **Chih-Kai Lin,** Huan-Cheng Chang, Albert A. (2007) Villayes, Michitoshi Hayashi, and Sheng Hsien Lin, "Calculation of the vibrationally non-relaxed photo-induced electron transfer rate constant in dye-sensitized solar cells, "*Phys. Chem. Chem. Phys.* 9, 853. 5. **Chih-Kai Lin**, Huan-Cheng Chang, and S.H. Lin (2007) "Symmetric double-well potential model and its application to vibronic spectra: Studies of inversion modes of ammonia and nitrogen-vacancy defect centers in diamond, "*J. Phys. Chem. A* **111,** 9347. 6. **Chih-Kai Lin,** Yi-Hsieh Wang, Husan-Cheng Chang, M. Hayashi, and S.H. Lin (2008) "One-and two-photon absorption properties of diamond nitrogen-vacancy defect centers: A theoretical study. *J. Chem. Phys*. (accepted)
Enrolling	MM	鍾文宏 Chung, Wen-Hung	1. Chiou CC, Yang LC, Hung SI, Chang YC, Kuo TT, Ho HC, Hu S, Hong HS, **Chung WH**. (2008) Clinicopathlogical features and prognosis of drug rash with eosinophilia and systemic symptoms: a study of 30 cases in Taiwan. *J Eur Acad Dermatol Venereol.* [Epub ahead of print] 2.Yang CF, Hwu WL, Yang LC, **Chung WH**, Chien YH, Hung CF, Chen HC, Tsai PJ, Fann CS, Liao F, Chen YT. (2008) A promoter sequence variant of ZNF750 is linked with familial psoriasis. *J Invest Dermatol.*, 128(7):1662-8. 3. **Chung WH**, Hung SI, Chen YT. (2007) Human leukocyte antigens and drug hypersensitivity. *Curr Opin Allergy Clin Immunol.*, 7(4):317-23. 4. Li LH, Ho SF, Chen CH, Wei CY, Wong WC, Li LY, Hung SI, **Chung WH**, Pan WH, Lee MT, Tsai FJ, Chang CF, Wu

			JY, Chen YT. (2006) Long contiguous stretches of homozygosity in the human genome. *Hum Mutat.*, 27(11):1115-21. 5. Hung SI, **Chung WH**, Jee SH, Chen WC, Chang YT, Lee WR, Hu SL, Wu MT, Chen GS, Wong TW, Hsiao PF, Chen WH, Shih HY, Fang WH, Wei CY, Lou YH, Huang YL, Lin JJ, Chen YT. (2006) Genetic susceptibility to carbamazepine-induced cutaneous adverse drug reactions. *Pharmacogenet Genomics*, 16(4):297-306. 6. Hung SI, **Chung WH**, Liou LB, Chu CC, Lin M, Huang HP, Lin YL, Lan JL, Yang LC, Hong HS, Chen MJ, Lai PC, Wu MS, Chu CY, Wang KH, Chen CH, Fann CS, Wu JY, Chen YT. (2005) HLA-B*5801 allele as a genetic marker for severe cutaneous adverse reactions caused by allopurinol. *Proc Natl Acad Sci U S A*, 102(11):4134-9.
Enrolling	MBAS	陳荷明 Ho-Ming Chen	**Chen H.-M.**, Li Y.-H. and Wu S.-H (2007) Bioinformatic prediction and experimental validation of a microRNA-directed tandem trans-acting siRNA cascade in Arabidopsis. *Proc. Natl. Acad. Sci. USA* 104: 3318-3323
Enrolling	MBAS	張瓊穗 Chiung-Swey Chang	**Chang, C.S**., Li, Y.H., Chen, L.T., Chen, W.C., Hsieh, W.P., Shin, J., Jane, W.N., Chou, S.J., Choi, G., Hu, J.M., Somerville, S., and Wu, S.H. (2008). LZF1, a HY5-regulated transcriptional factor, functions in Arabidopsis de-etiolation. *Plant J.* 54, 205-219.
Enrolling	Bio	蘇家玉 Chia-Yu Su	1. Jia-Ming Chang, **Emily Chia-Yu Su,** Allan Lo, Hua-Sheng Chiu, Ting-Yi Sung, and Wen-Lian Hsu (2008) "PSLDoc: Protein subcellular localization prediction based on gapped-dipeptides and probabilistic latent semantic analysis," *PROTEINS: Structure, Function, and Bioinformatics*, 72(2): 693. 2. **Emily Chia-Yu Su,** Hua-Sheng Chiu, Allan Lo, Jenn-Kang Hwang, Ting-Yi Sung, and Wen-Lian Hsu (2007) "Protein subcellular localization prediction based on compartment-specific features and structure conservation," *BMC Bioinformatics*, 8:330. [Highly accessed] 3. **Emily Chia-Yu Su,** Allan Lo, Hua-Sheng Chiu, Ting-Yi Sung, and Wen-Lian Hsu, "Protein Subcellular Localization Prediction Based on Compartment-Specific Biological Features," *Proceedings of IEEE Computational Systems Bioinformatics Conference* (CSB'06), Stanford, CA, (2006). [Acceptance rate, 19% (27/138)]
Enrolling	Bio	羅光倫 Allan K. L. Lo	1. Chang J.M., Su C.Y., **Lo A**., Chiu H.S., Sung T.Y. and Hsu W.L., Protein subcellular localization prediction based on gapped-dipeptides and probabilistic latent semantic analysis, PROTEINS: Structure, Function, and Bioinformatics, 72:2, 693-710, 2008.

			2. **Lo, A**., H.S. Chiu, T.Y. Sung, P.C. Lyu, and W.L. Hsu (2008) Enhanced membrane protein topology prediction using a hierarchical classification method and a new scoring function, *Journal of Proteome Research*, 7:2, 487-496,. 3. Su C.Y., Chiu H.S., **Lo A**., Hwang J.K., Sung T.Y., and Hsu W.L. (2007) Protein subcellular localization prediction based on compartment-specific features and structure conservation. *BMC Bioinformatics*, 8, 300. 4. **Lo A**., Chiu H.S., Sung T.Y., and Hsu W.L., Transmembrane helix and topology prediction using hierarchical SVM classifiers and an alternating geometric scoring function, Proceedings of IEEE Computational Systems Bioinformatics Conference, 2006. 5. Su C.Y., **Lo A**., Chiu H.S., Sung T.Y., and Hsu W.L. (2006) Protein subcellular localization prediction based on compartment-specific biological features, Proceedings of IEEE Computational Systems Bioinformatics Conference. 6. Chiu H.S., Lin H.N., **Lo A**., Sung T.Y., and Hsu W.L. (2006) A two-stage classifier for protein beta-turn prediction using support vector machines, Proceedings of IEEE International Conference on Granular Computing. Technical Report 1. **Lo A**., Chiu H.S., Sung T.Y., and Hsu W.L. (2007) On the accuracy of transmembrane helix prediction methods using an updated benchmark, number TR-IIS-007-010, Technical Report, Institute of Information Science, Academia Sinica.
Enrolling	CLCLP	張裕嘉 Richard Yu-chia Chang	1. Thomas C. Chuang, Jia-Yan Jian, **Yu-Chia Chang**, Jason S. Chang (2005) Collocational Translation Memory Extraction Based on Statistical and Linguistic Information. Computational Linguistics and Chinese Language Processing, 10 (1), 329-346. 2. Jien-Chen Wu, **Yu-Chia Chang**, Jason S. Chang. (2006) Computational Analysis of Move Structures in Academic Abstracts. Interactive Presentation in ACL 2006, the 44th Annual Meeting of Association for Computational Linguistics, Australia.
Enrolling	CLCLP	黃仲淇 Chung-Chi Huang	1. **Chung-Chi Huang**, Wei-Teh Chen, Jason S. Chang. Improving Word Alignment Based on Extended Inversion Transduction Grammar. (accepted by Recent Advances in Natural Language Processing 2007)
Enrolling	CLCLP	石穆 Simon Petr	1. Huang, Chu-Ren, **Petr Simon**, and Shu-Kai Hsieh. 2007. Automatic Discovery of Named Entity Variants. Presented at Association of Computational Linguistics Annual Meeting, Prague-Czech, June 25-28, 2007. 2. **Šimon, Petr**, Chu-Ren Huang, Shu-Kai Hsieh, and Jia-Fei Hong. Transliterated Named Entity Recognition Based on Chinese Word Sketch. Proceedings of Chinese Lexical Semantics Workshop 2007, Hong Kong Polytechnic University, May 20-23, 2007. 3. **Petr Šimon**、謝舒凱、黃居仁. 2006. 大規模詞彙語意關係自動標記之初步研究：以中文詞網（Chinese Wordnet）為例. Proceedings of ROCLING2006. September 7-8.

			Hsinchu, Taiwan.
Enrolling	CLCLP	邱智銘 Chih-ming Chiu	1. Chu-Ren Huang, Wei Yun Ma, Yi Ching Wu and **Chih Ming Chiu** (2006) Knowledge-Rich Approach to Automatic Grammatical Information Acquisition: Enriching Chinese Sketch Engine with a Lexical Grammar. Proceedings of the 20th Pacific Asia Conference on Language, Information and Computation. Wuhan, China, November 1-3.
Enrolling	MBAS	黎雁行 Mark, Yen-Hsing Li	Chen MH, **Li YH**, Chang Y, Hu SY, Gong HY, Lin GH, Chen TT, Wu JL. (2007) Co-induction of hepatic IGF-I and progranulin mRNA by growth hormone in tilapia, *Oreochromis mossambiccus. Gen Comp Endocrinol.* 150 (2) 212-8. (equal contribution as first author)
Enrolling	MCB	張翔毓 Hsiang-Yu Chang	**Chang HY**, Lin JY, Lee HC, Wang HL, King CY (2008) Strain-specific sequences required for yeast [PSI+] prion propagation. *Proc Natl Acad Sci U S A*， 105(36):13345-50.
Enrolling	Bio	何孟如 Mirrian Ho	**Ho MR**, Jang WJ, Chen CH, Ch'ang LY, Lin WC (2008) Designating eukaryotic orthology via processed transcription units. *Nucleic Acids Res*., 36 (10) 3436 - 42.
Enrolling	Bio	李松洲 Li, Sung-Chou	1. **Li SC**, Shiau CK, Lin WC (2008) Vir-Mir db: prediction of viral microRNA candidate hairpins. *Nucleic Acids Res*. 36:D184-9 2. **Li, S.C**., P. Tang, and W.C. Lin (2007) Intronic MicroRNA: Discovery and Biological Implications. *DNA Cell Biol* 26: 195-207. 3. Yu X, Zhou Q, **Li SC**, Luo Q, Cai Y, Lin WC, Chen H, Yang Y, Hu S, Yu J (2008) The silkworm (Bombyx mori) microRNAs and their expressions in multiple developmental stages. *PLoS ONE* 3(8) e2997.
Enrolling	Bio	陳鯨太 Chen, Ching-Tai	1. **Chen CT**, Lin HN, Sung TY, Hsu WL (2006) "HYPROSP: a knowledge-based method to protein local structure prediction," *J Bioinform Comput Biol.*, 4 (6) 1287-307. 2. **Chen, CT**.; Yang, E. W.; Hsu, H. J.; Sun, Y. K.; Hsu, W. L.; Yang, A. S., Protease Substrate Site Predictors Derived from Machine Learning on Multilevel Substrate Phage Display Data. *Bioinformatics* (accepted).